

**Tether™ ACFS****MAY 16 2001**

## 510 (k) Summary

**Company:** Theken Surgical  
1100 Nola Avenue  
Barberton, Ohio 44203

**Trade Name:** Tether™ ACFS

**Classification:** KWG 888.3060. Spinal Intervertebral Body Fixation Orthosis. Class II.

**Description:** The Tether ACFS is a titanium alloy anterior cervical plate fixation system. Plates are pre-contoured in two planes, and come in a variety of lengths. Screws are available in two diameters, several lengths, and two different styles; fixed angle and variable angle. Fixed angle screws are used to build a rigid fixation construct. Variable angle screws are used to build a non-rigid construct. Hybrid constructs are possible by combining fixed and variable angle screws. A locking ring integral to the screw head engages the plate hole upon entry into the plate and provides a mechanical lock against screw back-out.

**Performance Data:****Non-clinical:**

Static and fatigue testing was performed. Properties of stiffness, strength, and fatigue life were characterized.

**Intended Use:**

The Tether™ ACFS is indicated for:

The Tether™ ACFS is indicated for trauma, deformity (lordosis, kyphosis and scoliosis), pseudoarthrosis, previously failed cervical spine fusion, tumor, degenerative disk disease (DDD is defined as back pain of discogenic origin with degeneration of the disc confirmed by history and radiographic studies.) spondylolisthesis, and spinal stenosis.

The Tether™ ACFS is indicated for temporary stabilization of the spine from C2 to C7 during the time interval required for arthrodesis.

**Substantial Equivalence:**

Synthes (USA) Titanium Locking Plate System (TILPS) (K970048)



MAY 16 2001

Food and Drug Administration  
9200 Corporate Boulevard  
Rockville MD 20850

Mr. Randy Theken  
President  
Theken Surgical, LLC  
1100 Nola Avenue  
Barberton, Ohio 44203

Re: K010466

Trade Name: Tether™ ACFS  
Regulation Number: 888.3060  
Regulatory Class: Class II  
Product Code: KWQ  
Dated: February 15, 2001  
Received: February 16, 2001

Dear Mr. Theken:

We have reviewed your Section 510(k) notification of intent to market the device referenced above and we have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (Premarket Approval), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 895. A substantially equivalent determination assumes compliance with the current Good Manufacturing Practice requirement, as set forth in the Quality System Regulation (QS) for Medical Devices: General regulation (21 CFR Part 820) and that, through periodic (QS) inspections, the Food and Drug Administration (FDA) will verify such assumptions. Failure to comply with the GMP regulation may result in regulatory action. In addition, FDA may publish further announcements concerning your device in the Federal Register. Please note: this response to your premarket notification submission does not affect any obligation you might have under sections 531 through 542 of the Act for devices under the Electronic Product Radiation Control provisions, or other Federal laws or regulations.

This letter will allow you to begin marketing your device as described in your 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

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If you desire specific advice for your device on our labeling regulation (21 CFR Part 801 and additionally 809.10 for in vitro diagnostic devices), please contact the Office of Compliance at (301) 594-4659. Additionally, for questions on the promotion and advertising of your device, please contact the Office of Compliance at (301) 594-4639. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR 807.97). Other general information on your responsibilities under the Act may be obtained from the Division of Small Manufacturers Assistance at its toll-free number (800) 638-2041 or at (301) 443-6597, or at its Internet address "<http://www.fda.gov/cdrh/dsmamain.html>".

Sincerely yours,

A handwritten signature in black ink, appearing to read 'C. M. Witten', followed by a stylized flourish.

Celia M. Witten, Ph.D., M.D.

Director

Division of General, Restorative and

Neurological Devices

Office of Device Evaluation

Center for Devices and

Radiological Health

Enclosure

510 (k) Number (if known): K010466

Device Name: Tether™ ACFS

## 1. Indications for Use:

The Tether™ ACFS is indicated for trauma, deformity (lordosis, kyphosis and scoliosis), pseudoarthrosis, previously failed cervical spine fusion, tumor, degenerative disk disease (DDD is defined as back pain of discogenic origin with degeneration of the disc confirmed by history and radiographic studies.), spondylolisthesis, and spinal stenosis.

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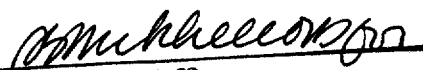
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Concurrence of CDRH, Office of Device Evaluation (ODE)Prescription Use X  
(per 21 CFR 801.109)

OR

Over-The-Counter Use \_\_\_\_\_

(Optional Format 1/2/96)

  
(Division Sign-Off)  
Division of General, Restorative  
and Neurological Devices

510(k) Number 010446